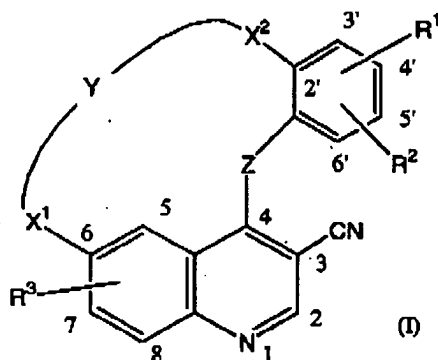


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Listing of Claims

This listing of claims replaces all prior versions, and listings, of claims in the captioned application.

1. (currently amended) A compound having the formula



the *N*-oxide forms, the pharmaceutically acceptable addition salts and the stereochemically isomeric forms thereof, wherein

Z represents O, NH or S;

Y represents ~~C₃₋₆alkyl, C₃₋₆alkenyl, C₁₋₅alkyl oxy C₁₋₅alkyl,~~
~~C₁₋₅alkyl-NR¹²-C₁₋₅alkyl, C₁₋₅alkyl-NR¹³-CO-C₁₋₅alkyl,~~
~~C₁₋₅alkyl-CO-NR¹⁴-C₁₋₅alkyl, C₁₋₆alkyl-CO-NH, C₁₋₆alkyl-NH-CO,~~
~~CO-NH-C₁₋₆alkyl, NH-CO-C₁₋₆alkyl, CO-C₁₋₇alkyl, C₁₋₇alkyl-CO,~~
~~C₁₋₆alkyl-CO-C₁₋₆alkyl, C₁₋₂alkyl-NH-CO-CH₂-R¹⁵-NH;~~

X¹ represents a direct bond, O, ~~O-C₁₋₂alkyl, CO, CO-C₁₋₂alkyl, NR¹⁰,~~
~~NR¹⁰-C₁₋₂alkyl, NR¹⁶-CO, NR¹⁶-CO-C₁₋₂alkyl, O-N=CH or C₁₋₂alkyl;~~

X² represents a direct bond, O, ~~O-C₁₋₂alkyl, CO, CO-C₁₋₂alkyl, NR¹¹,~~
~~NR¹¹-C₁₋₂alkyl, NR¹⁷-CO, NR¹⁷-CO-C₁₋₂alkyl, Het²⁰-C₁₋₂alkyl, O-N=CH or C₁₋₂alkyl;~~

R¹ represents hydrogen, cyano, halo, hydroxy, formyl, C₁₋₆alkoxy-, C₁₋₆alkyl-,
 C₁₋₆alkoxy- substituted with halo,
 C₁₋₄alkyl substituted with one or where possible two or more substituents selected from
 hydroxy or halo;

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R^2 represents hydrogen, cyano, halo, hydroxy, hydroxycarbonyl-, Het¹⁶-carbonyl-, C₁₋₄alkyloxycarbonyl-, C₁₋₄alkylcarbonyl-, aminocarbonyl-, mono- or di(C₁₋₄alkyl)aminocarbonyl-, Het¹, formyl, C₁₋₄alkyl-, C₂₋₆alkynyl-, C₃₋₆cycloalkyl-, C₃₋₆cycloalkyloxy-, C₁₋₆alkoxy-, Ar⁵, Ar¹-oxy-, dihydroxyborane, C₁₋₆alkoxy- substituted with halo, C₁₋₄alkyl substituted with one or where possible two or more substituents selected from halo, hydroxy or NR⁴R⁵, C₁₋₄alkylcarbonyl- wherein said C₁₋₄alkyl is optionally substituted with one or where possible two or more substituents selected from hydroxy or C₁₋₄alkyl-oxy-;

R^3 represents hydrogen, hydroxy, Ar³-oxy, Ar⁴-C₁₋₄alkyloxy-, C₁₋₄alkyloxy-, C₂₋₄alkenyl-oxy- optionally substituted with Het¹² or R^3 represents C₁₋₄alkyloxy substituted with one or where possible two or more substituents selected from C₁₋₄alkyloxy-, hydroxy, halo, Het²-, -NR⁶R⁷-, -carbonyl- NR⁸R⁹ or Het³-carbonyl-;

R^4 and R^5 are each independently selected from hydrogen or C₁₋₄alkyl;

R^6 and R^7 are each independently selected from hydrogen, C₁₋₄alkyl, Het⁸, aminosulfonyl-, mono- or di (C₁₋₄alkyl)-aminosulfonyl, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyl-oxy-C₁₋₄alkyl-, hydroxycarbonyl-C₁₋₄alkyl-, C₃₋₆cycloalkyl, Het⁹-carbonyl-C₁₋₄alkyl-, Het¹⁰-carbonyl-, polyhydroxy-C₁₋₄alkyl-, Het¹¹-C₁₋₄alkyl- or Ar²-C₁₋₄alkyl-;

R^8 and R^9 are each independently selected from hydrogen, C₁₋₄alkyl, C₃₋₆cycloalkyl, Het⁴, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyloxyC₁₋₄alkyl- or polyhydroxy-C₁₋₄alkyl-;

~~R^{10} represents hydrogen, C₁₋₄alkyl, Het⁵, Het⁶-C₁₋₄alkyl-, C₂₋₄alkenylcarbonyl- optionally substituted with Het⁷-C₁₋₄alkylaminocarbonyl-, C₂₋₄alkenylsulfonyl-, C₁₋₄alkyloxyC₁₋₄alkyl- or phenyl optionally substituted with one or where possible two or more substituents selected from hydrogen, hydroxy, amino or C₁₋₄alkyloxy-;~~

~~R^{11} represents hydrogen, C₁₋₄alkyl, C₁₋₄alkyl-oxy-carbonyl-, Het¹²-, Het¹³-C₁₋₄alkyl-, C₂₋₄alkenylcarbonyl- optionally substituted with Het¹⁴-C₁₋₄alkylaminocarbonyl-, C₂₋₄alkenylsulfonyl-, C₁₋₄alkyloxyC₁₋₄alkyl- or phenyl optionally substituted with one or where possible two or more substituents selected from hydrogen, hydroxy, amino or C₁₋₄alkyloxy-;~~

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R¹² represents hydrogen, C₁₋₄alkyl, Het¹³, Het¹⁴-C₁₋₄alkyl- or phenyl optionally substituted with one or where possible two or more substituents selected from hydrogen, hydroxy, amino or C₁₋₄alkyloxy-;

R¹³ and R¹⁴ are each independently selected from hydrogen, C₁₋₄alkyl, Het¹⁵-C₁₋₄alkyl- or C₁₋₄alkyloxy-C₁₋₄alkyl-;

R¹⁵ represents hydrogen or C₁₋₄alkyl optionally substituted with phenyl, indolyl, methylsulfide, hydroxy, thiol, hydroxyphenyl, aminocarbonyl, hydroxycarbonyl, amine, imidazolyl or guanidino;

R¹⁶ and R¹⁷ are each independently selected from hydrogen, C₁₋₄alkyl, Het²¹-C₁₋₄alkyl- or C₁₋₄alkyloxy-C₁₋₄alkyl-;

Het¹ represents a heterocycle selected from piperidinyl, morpholinyl, piperazinyl, furanyl, pyrazolyl, dioxolanyl, thiazolyl, oxazolyl, imidazolyl, isoxazolyl, oxadiazolyl, pyridinyl or pyrrolidinyl wherein said Het¹ is optionally substituted amino, C₁₋₄alkyl, hydroxy-C₁₋₄alkyl-, phenyl, phenyl-C₁₋₄alkyl-, C₁₋₄alkyl-oxy-C₁₋₄alkyl- mono- or di(C₁₋₄alkyl)amino- or amino-carbonyl-;

Het² represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl, pyrrolidinyl, thiomorpholinyl or dithianyl wherein said Het² is optionally substituted with one or where possible two or more substituents selected from hydroxy, halo, amino, C₁₋₄alkyl-, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyl-oxy-C₁₋₄alkyl-, hydroxy-C₁₋₄alkyl-oxy-C₁₋₄alkyl-, mono- or di(C₁₋₄alkyl)amino-, mono- or di(C₁₋₄alkyl)amino-C₁₋₄alkyl-, aminoC₁₋₄alkyl-, mono- or di(C₁₋₄alkyl)amino-sulfonyl-, aminosulfonyl-;

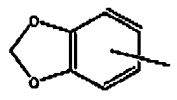
Het³, Het⁴ and Het⁸ each independently represent a heterocycle selected from morpholinyl, piperazinyl, piperidinyl, furanyl, pyrazolyl, dioxolanyl, thiazolyl, oxazolyl, imidazolyl, isoxazolyl, oxadiazolyl, pyridinyl or pyrrolidinyl wherein said Het³, Het⁴ or Het⁸ is optionally substituted with one or where possible two or more substituents selected from hydroxy-, amino-, C₁₋₄alkyl-, C₃₋₆cycloalkyl-C₁₋₄alkyl-, aminosulfonyl-, mono- or di(C₁₋₄alkyl)aminosulfonyl or amino-C₁₋₄alkyl-;

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Het⁵ represent a heterocycle selected from pyrrolidinyl or piperidinyl wherein said Het⁵ optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyloxyC₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;

Het⁶ and Het⁷ each independently represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said Het⁶ and Het⁷ are optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyloxyC₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;

Het⁹ and Het¹⁰ each independently represent a heterocycle selected from furanyl, piperidinyl, morpholinyl, piperazinyl, pyrazolyl, dioxolanyl, thiazolyl, oxazolyl, imidazolyl, isoxazolyl, oxadiazolyl, pyridinyl or pyrrolidinyl wherein said Het⁹ or Het¹⁰ is optionally substituted C₁₋₄alkyl, C₃₋₆cycloalkyl-C₁₋₄alkyl- or amino-C₁₋₄alkyl-;



Het¹¹ represents a heterocycle selected from indolyl or

Het¹² represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl, pyrrolidinyl, thiomorpholinyl or dithianyl wherein said Het¹² is optionally substituted with one or where possible two or more substituents selected from hydroxy, halo, amino, C₁₋₄alkyl-, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyl-oxy-C₁₋₄alkyl-, hydroxy-C₁₋₄alkyl-oxy-C₁₋₄alkyl-, mono- or di(C₁₋₄alkyl)amino- or mono- or di(C₁₋₄alkyl)amino-C₁₋₄alkyl-;

Het¹³ represent a heterocycle selected from pyrrolidinyl or piperidinyl wherein said Het¹³ is optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyloxyC₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;

Het¹⁴ represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said Het¹⁴ is optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl-, C₁₋₄alkyloxyC₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;

Het¹⁵ and Het²¹ each independently represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said heterocycles are optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl,

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~~hydroxy-C₁₋₄alkyl-;~~
~~C₁₋₄alkyloxy-C₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;~~
 Het¹⁶ represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl, 1,3,2-dioxaborolane or piperidinyl wherein said heterocycle is optionally substituted with one or more substituents selected from C₁₋₄alkyl; and
 Het¹⁷ ~~represent a heterocycle selected from pyrrolidinyl or piperidinyl wherein said Het¹⁷ is optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl, C₁₋₄alkyloxy-C₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;~~
 Het¹⁸ and Het¹⁹ ~~each independently represent a heterocycle selected from morpholinyl, pyrrolidinyl, piperazinyl or piperidinyl wherein said Het¹⁸ and Het¹⁹ are optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl, C₁₋₄alkyloxy-C₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-;~~
 Het²⁰ ~~represents a heterocycle selected from pyrrolidinyl, 2-pyrrolidinyl, piperidinyl, piperazinyl, morpholinyl, imidazolyl or pyrazolidinyl wherein said Het²⁰ is optionally substituted with one or where possible two or more substituents selected from C₁₋₄alkyl, C₃₋₆cycloalkyl, hydroxy-C₁₋₄alkyl, C₁₋₄alkyloxy-C₁₋₄alkyl or polyhydroxy-C₁₋₄alkyl-; and~~
 Ar¹, Ar², Ar³, Ar⁴ and Ar⁵ each independently represent phenyl optionally substituted with cyano, C₁₋₄alkylsulfonyl-, C₁₋₄alkylsulfonylamino-, aminosulfonylamino-, hydroxy-C₁₋₄alkyl, aminosulfonyl-, hydroxy-, C₁₋₄alkyloxy- or C₁₋₄alkyl.

2. (Currently Amended) A compound according to claim 1 wherein;

~~Z represents NH-;~~

~~Y represents C₃₋₉alkyl-, C₂₋₉alkenyl-, C₁₋₉alkyl-oxy-C₁₋₉alkyl-, C₁₋₉alkyl-NR¹²-C₁₋₉alkyl-, C₁₋₉alkyl-NR¹³-CO-C₁₋₉alkyl-, C₁₋₆alkyl-NH-CO-, CO-C₁₋₉alkyl-, C₁₋₉alkyl-CO- or C₁₋₆alkyl-CO-C₁₋₆alkyl-;~~

~~X¹ represents O-, O-C₁₋₂alkyl-, O-N-CH₂-, NR¹⁶-CO-, NR¹⁶-CO-C₁₋₉alkyl-, NR¹⁰- or NR¹⁰-C₁₋₂alkyl-; in a particular embodiment X¹ represents O-, O-CH₂-, NR¹⁰- or NR¹⁰-C₁₋₂alkyl-;~~

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~~X² represents a direct bond, O-C₁₋₂alkyl, O-N-CH, Het²⁰-C₁₋₂alkyl, C₁₋₂alkyl-NR¹⁷-CO, NR¹⁷-CO-C₁₋₂alkyl, NR¹⁷ or NR¹⁷-C₁₋₂alkyl; in a particular embodiment X² represents a direct bond, O-N-CH, NR¹⁷-C₁₋₂alkyl, NR¹⁷-CH₂, Het²⁰-C₁₋₂alkyl, NR¹⁷-CO, NR¹⁷-CO-C₁₋₂alkyl-C₁₋₂alkyl, O-C₁₋₂alkyl, O or O-CH₂;~~

R¹ represents ~~hydrogen, cyano, halo or hydroxy, preferably halo;~~

R² represents hydrogen, cyano, halo, hydroxy, hydroxycarbonyl-, C₁₋₄alkyloxycarbonyl-, Het¹⁶-carbonyl-, C₂₋₆alkynyl-, Ar⁵ or Het¹;

In a further embodiment R² represents hydrogen, cyano, halo, hydroxy, C₂₋₆alkynyl- or Het¹;

R³ represents hydrogen, hydroxy, C₁₋₄alkyloxy-, Ar⁴-C₁₋₄alkyloxy or R³ represents C₁₋₄alkyloxy substituted with one or where possible two or more substituents selected from C₁₋₄alkyloxy- or Het²-;

R¹⁰ represents ~~hydrogen, C₁₋₄alkyl or C₁₋₄alkyl-oxy-carbonyl;~~

R¹¹ represents ~~hydrogen, C₁₋₄alkyl or C₁₋₄alkyl-oxy-carbonyl;~~

R¹² represents Het¹⁴-C₁₋₄alkyl, in particular morpholinyl-C₁₋₄alkyl;

R¹⁶ represents ~~hydrogen, C₁₋₄alkyl, Het²¹-C₁₋₄alkyl or C₁₋₄alkyl-oxy-C₁₋₄alkyl; in particular R¹⁶ represents hydrogen or C₁₋₄alkyl;~~

R¹⁷ represents ~~hydrogen, C₁₋₄alkyl, Het²⁴-C₁₋₄alkyl or C₁₋₄alkyl-oxy-C₁₋₄alkyl; in particular R¹⁷ represents hydrogen or C₁₋₄alkyl;~~

Het¹ represents thiazolyl optionally substituted amino, C₁₋₄alkyl, hydroxy-C₁₋₄alkyl-, phenyl, phenyl-C₁₋₄alkyl-, C₁₋₄alkyl-oxy-C₁₋₄alkyl- mono- or di(C₁₋₄alkyl)amino- or amino-carbonyl;

Het² represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het² is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C₁₋₄alkyl-;

Het¹⁴ represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het¹⁴ is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C₁₋₄alkyl-;

Het¹⁶ represents a heterocycle selected from piperidinyl, morpholinyl or pyrrolidinyl;

~~Het²⁰ represents a heterocycle selected from pyrrolidinyl, 2-pyrrolidinyl or piperidinyl;~~

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~~Het²¹ represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het²¹ is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C₁₋₄alkyl;~~

Ar⁴ represents phenyl optionally substituted with cyano, hydroxy-, C₁₋₄alkyloxy or C₁₋₄alkyl; and

Ar⁵ represents phenyl optionally substituted with cyano, hydroxy, C₁₋₄alkyloxy or C₁₋₄alkyl.

3. (Currently Amended) A compound according to claim 1 wherein;

Z represents NH;

~~Y represents C₃₋₆alkyl, C₁₋₆alkyl NR¹², C₁₋₆alkyl, C₁₋₆alkyl NR¹³, CO C₁₋₆alkyl, C₁₋₆alkyl NH CO or CO NH C₁₋₆alkyl;~~

~~X⁴ represents a direct bond, NR¹⁰, NR¹⁰ C₁₋₂alkyl, NR¹⁰ CH₂, C₁₋₂alkyl, O C₁₋₂alkyl, O or O CH₂;~~

~~X² represents a O, NR¹⁴, NR¹⁷, CO, NR¹⁷ CO C₁₋₂alkyl or Het²⁰ C₁₋₂alkyl;~~

R¹ represents hydrogen or halo;

R² represents hydrogen, cyano, halo, hydroxycarbonyl-, C₁₋₄alkyloxycarbonyl-, Het¹⁶-carbonyl- or Ar⁵;

R³ represents hydrogen, hydroxy, C₁₋₄alkyloxy-, Ar⁴-C₁₋₄alkyloxy or R³ represents C₁₋₄alkyloxy substituted with one or where possible two or more substituents selected from C₁₋₄alkyloxy- or Het²;

~~R¹⁰ represents hydrogen;~~

~~R¹¹ represents hydrogen, C₁₋₄alkyl or C₁₋₄alkyl-oxy-carbonyl;~~

~~R¹² represents Het¹⁴ C₁₋₄alkyl, in particular morpholinyl C₁₋₄alkyl;~~

~~R¹³ represents hydrogen;~~

~~R¹⁷ represents hydrogen;~~

Het² represents a heterocycle selected from morpholinyl, piperazinyl, piperidinyl or pyrrolidinyl wherein said Het² is optionally substituted with one or where possible two or more substituents selected from hydroxy, amino or C₁₋₄alkyl;

Het¹⁴ represents morpholinyl;

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Het¹⁶ represents a heterocycle selected from morpholinyl or pyrrolidinyl;

~~Het²⁰ represents pyrrolidinyl or piperidinyl;~~

Ar⁴ represents phenyl; and

Ar⁵ represents phenyl optionally substituted with cyano.

4. (previously presented) A compound according to claim 1, wherein the R¹ substituent is at position 4', the R² substituent is at position 5' and the R³ substituent at position 7 of the structure of formula (I).

5.-7. (Cancelled)

8. (previously presented) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and, as active ingredient, an effective kinase inhibitory amount of a compound as described in claim 1.

9.-12 (cancelled)